| **Test ID** | **Description** | **Preconditions** | **Steps** | **Expected Result** |
| --- | --- | --- | --- | --- |
| TC-01 | Create Course | None | Instantiate Course("CPSC101") | Course object is created with code "CPSC101" |
| TC-02 | Create Availability Slot | None | Instantiate AvailabilitySlot("Monday", 14) | Slot object stores "Monday" and 14; str(slot) returns "Monday at 14:00" |
| TC-03 | Create User | None | Instantiate User("jdoe", "pass123", "John Doe") | User object has correct username, password, and name |
| TC-04 | Add Course to User | User exists | Call user.add\_course("CPSC101") | User’s courses list contains a Course("CPSC101") |
| TC-05 | Set Availability for User | User exists | Call user.set\_availability("Tuesday", 10) | User’s availability contains AvailabilitySlot("Tuesday", 10) |
| TC-06 | Create Study Session | User A, User B, Course, Slot exist | Instantiate StudySession(course, slot, userA, userB) | Session created with status "Pending" |
| TC-07 | Confirm Study Session | StudySession exists | Call session.confirm() | Session status is "Confirmed" |
| TC-08 | Decline Study Session | StudySession exists | Call session.decline() | Session status is "Declined" |
| TC-09 | Study Session Attributes | StudySession exists | Access course, slot, organizer, invitee | Each attribute references the correct object |